

Poster presentations

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- P01 Atomic scale studies on the stability of nano-sized precipitates in ferritic based lightweight Fe-Mn-Al-C alloys**
J. B. Seol*, C. G. Park, J. H. Kwak, P. P. Choi, D. Raabe
Max-Planck-Institut fuer Eisenforschung
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- P02 Precipitation and clustering phenomena of Cu in Fe-Cu-Ni alloy observed by aberration corrected STEM-EDS**
H. Nakamichi*, K. Yamada, T. Yamashita, K. Sato
JFE Steel Corporation
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- P03 First-principles study of thermodynamic and structural properties of Si-doped α -Fe**
Arkapol Saengdeejing*, Ying Chen, Ken Suzuki, Hideo Miura, Tetsuo Mohri
Tohoku Univeristy
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- P04 First-principles approach to the nature of light elements dissolved in α iron**
Maaouia Souissi*, Ying Chen, Hiroshi Numakura
Osaka Prefecture University
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- P05 Effect of Nb addition on precipitation hardening of high V added medium carbon steels**
Elijah Kakiuchi*, Toshio Murakami, Takeshi Arikawa, Hideki Kakimoto, Takashi Choda, Hitoshi Hatano
Kobe Steel, Ltd.
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- P06 Carbon redistribution in a quenched and partitioned steel analysed by atom probe tomography**
M. J. Santofimia*, L. Zhao, I. Povstugar, P.-P. Choi, D. Raabe, J. Sietsma
Delft University of Technology
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- P07 Effects of Mo and B addition on bainite transformation in low-carbon low-alloy steels**
Tadashi Furuhashi*, Kenji Takahashi, Naoki Takayama, Goro Miyamoto, Taishi Fujishiro, Masanori Minagawa
Tohoku University
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- P08 The effect of molybdenum on Nb,Ti(C,N) precipitate evolution and grain refinement in a high-temperature carburizing steel**
C. M. Enloe*, J. G. Speer, K. O. Findley
Colorado School of Mines
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- P09 Role of initial microstructure and multi-scale chemical inhomogeneity on microstructure evolution in flash processed steels**
B. Hanhold*, T. Lolla, G. Cola, S. S. Babu
The Ohio State University
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- P10 Segregation and precipitation of carbon in the vicinity of dislocations during strain aging in low carbon steels**
Naoki Maruyama*, Manabu Takahashi
Nippon Steel Corporation
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- P11 Relationship between hydrogen-related crack propagation and microstructure of martensite in low carbon martensitic steel**
Akinobu Shibata*, Hiroshi Takahashi, Nobuhiro Tsuji
Kyoto University
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- P12 Yield point phenomenon in Ni bearing IF steel**
Daichi Akama*, Akira Hironaka, Nobuo Nakada, Toshihiro Tuchiya, Setsuo Takaki
Kyushu Univeristy
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- P13 The effect of uniform distribution of fine cementite on hydrogen embrittlement of low carbon martensitic steel plates**
Akihide Nagao*, Kenji Hayashi, Kenji Oi, Shinji Mitao
JFE Steel Corporation
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- P14 Simulation studies on Cottrell locking using phase-field method**
Hiroshi Kaido*, Koji Moriguchi
Sumitomo Metal Industries, Ltd
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- P15 Effect of grain boundary on the strain aging behavior in Nb-bearing ultra-low-carbon steel sheets**
Yoshihiko Ono*, Kaneharu Okuda, Yoshimasa Funakawa, Kazuhiro Seto
JFE Steel Corporation
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P16	Evaluation of hydrogen embrittlement susceptibility by electrochemical nanoindentation Kota Tomatsu*, Kaori Miyata Sumitomo Metal Industries, Ltd
P17	High cycle fatigue fracture of V-added ferrite-pearlite type microalloyed steels Satoshi Morooka*, Daisuke Tajiri, Osamu Umezawa Yokohama National University
P18	The distribution of dislocations of the lath martensite in low carbon steel Shigekazu Morito*, Soichiro Omura, Kouji Nashiki, Takuya Ohba, Taisuke Hayashi Shimane University
P19	Formation process of wear-induced layer in Fe-33%Ni alloy Hisashi Sato*, Yuuki Fuseya, Takahiro Kunimine, Yoshimi Watanabe Nagoya Institute of Technology
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P23	Indentation-induced plasticity of steels with various lattice defects Takahito Ohmura*, Ling Zhang, Kaoru Sekido, Kaneaki Tsuzaki National Institute for Materials Science
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P25	Development of electric resistance welded steel tube with excellent electromagnetic properties by crystal texture control in hot stretch reducing process Masatoshi Aratani*, Yasuhide Ishiguro, Masayoshi Ishida, Yoshikazu Kawabata, Shinsaku Kokubo JFE Steel Corporation
P26	Lattice defects in plastically deformed single crystals of iron base alloys studied by positron probe microanalysis Eui Pyo Kwon, Shigeru Suzuki*, Satoshi Jinno, Masanori Fujinami Tohoku Univeristy
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P29	First-principles study of interface structure and energy of Fe/NbC H. Sawada*, K. Kawakami, T. Ozaki Nippon Steel Corporation
P30	Improvements in the thermodynamic descriptions of the Fe-based systems Taichi Abe*, Kiyoshi Hashimoto, Yukiko Sawada, Cenk Kocer, Kazuhisa Shobu, Mauro Palumbo, Suzana G. Fries, Masato Shimono, Kaneaki Tsuzaki National Institute for Materials Science
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P32 Effects of carbon on magnetic properties and transformed structures in Fe-based alloys

H. Ohtsuka*, V. A. Dinh, T. Ohno, K. Tsuzaki, H. Suzuki, H. Kitazawa
National Institute for Materials Science

P33 Microstructure of high chromium martensitic steels embrittled by low temperature reheating

Yusaku Tomio*, Hirokazu Okada, Kazuhiro Hono
Sumitomo Metal Industries, Ltd

P34 D-STEM combined with precession microscopy for nanoscale crystal orientation and phase mapping

K. J. Ganesh, S. Rajasekhara, D. Bultreys, K. Hattar, J. A. Knapp, Paulo Ferreira*
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P35 Improved method for determining the elastic modulus of a highly plastic material by nanoindentation

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